# *Cumulative Index for 1981*


ABIOTROPHY, degenerative hearing loss and, February, 60
Abscess formation, in sella turcica, May, 373
Acid-base abnormalities, following head and neck surgery, May, 294–296
Acidosis, metabolic, following head and neck surgery, May, 294
  respiratory, following head and neck surgery, May, 295
Acrocephalosyndactyly, type I. See *Apert's syndrome.*
  type II, radiology of, November 962–965
Adenitis, tuberculous, branchial anomalies and, February, 184
Adenocarcinoma, of thyroid, clinical features and treatment of, May, 416
Adenoidectomy and tonsillectomy, in children, anesthesia and, August, 551
Adenoma, adrenocorticotrophin secreting, Cushing's disease and, May, 357
  growth hormone secreting, occurrence of, May, 356
  of parathyroid, density test in surgery for, May, 439
  pituitary, headache and, May, 358
    visual symptoms and signs of, May, 357
Adrenal cortex, steroids produced by, actions of, May, 275–278
Adrenal insufficiency, primary, detection of, May, 277
  testing for, May, 277
Adrenergic crisis, treatment of, August, 622
Adrenergic system, drugs acting on, August, 617–622
Adrenocorticotropin, actions of, May, 269
Airway, compromised, anesthesia and, August, 591
    in children, August, 534–536, 545
  upper, clinical problems involving, November, 765–766
Airway management, general principles of, August, 735–738
Airway obstruction, acute, in newborn, management of, November, 1005–1007
  chronic, in craniofacial anomalies, November, 1007–1011
  in craniofacial anomalies, diagnosis and management of, November, 1005–1017
Airway problems, with craniofacial anomalies, February, 147–153
  with craniofacial surgery, February, 151
Albumin and plasma protein fraction, in head and neck surgery, August, 748
Alkalosis, metabolic, following head and neck surgery, May, 295
  respiratory, following head and neck surgery, May, 296
Alport's syndrome, hearing loss in, February, 61
Alveolar nerve, posterior superior, blocking of, at zygomatic process of maxilla, August, 663
Amniocentesis, in detection of congenital disease, February, 48–53
Analgesics, narcotic, preoperative use of, August, 581
  neuroleptic, preoperative use of, August, 582
Anaplastic carcinoma, of thyroid, clinical features and treatment of, May, 416
Androgens, as product of ovary, May, 280
Anencephaly, amniocentesis in detection of, February, 51
Anesthesia, and otolaryngology, current practice in, August, 483–487
  controlled hypotensive, applications of, August, 609
  general, in endoscopy, August, 691
  hypotensive, controlled, applications of, August, 609
  in correction of H type of tracheoesophageal fistula, February, 244
  in otolaryngology, historical overview of, August, 467–481
  induction of, in children, August, 539
  infiltration, in otologic surgery, August, 702
  local, in endoscopy, August, 690
    in otologic surgery, August, 702–704
  maintenance of, in children, August, 540
  monitoring of, in children, August, 544–545
  pediatric, evaluation of patient for, August, 533–538
    management of, in head and neck surgery, August, 695–696
    principles and practice of, August, 533–556

Anesthesiology, development of, August, 469–479
Anesthetic induction, high risk, August, 587–600
Anesthetic machine, set-up of, for ear, nose, and throat surgery, August, 675–676
Anesthetic techniques, special, in head and neck surgery, August, 587–614
Anesthetics, general, features and use of, August, 489–500
  local, action, metabolism, and toxicity of, August, 515–519
    in head and neck surgery, August, 485–487
Aneurysm, of internal carotid artery, May, 373
Anomalies, craniofacial. See *Craniofacial anomalies.*
Antacids, preoperative use of, August, 582
Anterior pituitary hormones, actions of, May, 268–275
Anthropometric measurements, in head and neck surgery, May, 303
Antibiotics, drug interaction with, August, 623
Anticholinesterases, drug interaction with, August, 622
Antihemophilic factor-fibrinogen concentrate, cryoprecipitated, in head and neck surgery, August, 749
Apert's syndrome. See also *Craniofacial synostosis.*
  airway obstruction and, November, 1011
  clinical features of, November, 908
  radiology of, November, 956–962
  upper airway problems in, November, 766
Apneic episodes, obstructive, with craniofacial anomalies, February, 148
Apoplexy, pituitary, pituitary adenomas and, May, 358
Arterial blood gas analysis, in patients undergoing head and neck surgery, August, 730–732
Artery, internal carotid, aneurysm of, May, 373
Aspirin, in patient undergoing head and neck surgery, August, 572
Asthma, evaluation of, prior to head and neck surgery, August, 560
Atresia, and webs, laryngeal, diagnosis of, February, 214
  congenital choanal, bilateral, airway obstruction and, November, 1013
    development and treatment of, February, 167–173
    radiologic assessment of, February, 69
    upper airway problems in, November, 765
  esophageal, and tracheoesophageal fistula, diagnosis and treatment of, February, 219–249
  posterior choanal, diagnosis and management of, November, 989–993
  pure esophageal, diagnosis and correction of, February, 237–243
Audiologic evaluation, in cleft lip-palate, November, 877
Audiometric evaluation, in microtia, November, 887
Auditory canal, external, construction of, February, 109–117
Auditory canal (Cont.)
  duplication of, diagnosis and treatment of, February, 97–99
  maldevelopment of, detection and treatment of, February, 102–104
Auditory tube testing, with perforated tympanic membrane, in cleft lip-palate, November, 879
Aural malformation, congenital, diagnosis and treatment of, February, 95–124
  postoperative hearing improvement with, February, 121–122
Auricle. See also *Ear, external.*
  development of, February, 35–36
  malformations of, multifactorial inheritance and, November, 861
Auricular reconstruction, in microtia, November, 891
  with autogenous chondroepithelial graft, in biologic dressing, November, 934–938

BAIN CIRCUIT, in head and neck surgery, August, 671–672
Barbiturates, preoperative use of, August, 582
Barium swallow, postoperative, following correction of tracheoesophageal fistula, February, 230
Becker otoplasty, in correction of protruding ear, November, 923
Beta-adrenergic blockers, preoperative use of, August, 583
Birth defects, prenatal detection of, genetic counseling and, November, 861–862
Bleeding disorders, evaluation of, prior to head and neck surgery, August, 571
Blood components, preparation and storage of, August, 740–741
Blood components and derivatives, optimal use of, in head and neck surgery, August, 739–753
Blood gas analysis, arterial, in patients undergoing head and neck surgery, August, 730–732
Blood pressure, physiology of control of, May, 317
Blood substitutes, in head and neck surgery, August, 751
Branchial arches, embryology of, February, 175–178
Branchial cleft cysts and sinuses, clinical presentation of, February, 179–183
  histology of, February, 179
  surgical treatment of, February, 183–184
Branchiogenic carcinoma, branchial anomalies and, February, 184
Breast, carcinoma of, pituitary ablation in, May, 391–403
  surgical technique in, May, 397–402
Bronchi, anomalies of, airway obstruction and, November, 1010
Bronchoscope, fiberoptic, use of, August, 602
  with suction attachment, August, 683
  rigid, use of, August, 602
  ventilating, with gas-tight eyepiece, August, 681

Bronchoscopy, and laryngoscopy, in children, anesthesia and, August, 553
in foreign body aspiration, August, 707–709
in papillomas of larynx, August, 710–711
fiberoptic, general anesthesia for, August, 609
rigid, general anesthesia for, August, 608
Sander's Venturi-ventilating attachment for, August, 681–683
Buccal nerve block, technique of, August, 658

CALCIUM, magnesium, and phosphate metabolism, head and neck surgery and, May, 296–298
Cancer pain, pharmacologic management of, August, 648–649
Carbon dioxide laser microsurgery, current use of, August, 477
Carcinoma, anaplastic, of thyroid, clinical features and treatment of, May, 416
branchiogenic, branchial anomalies and, February, 184
follicular, of thyroid, clinical features and treatment of, May, 415
Hurthle cell, clinical features and treatment of, May, 417
of breast, pituitary ablation in, May, 391–403
surgical technique in, May, 397–402
of pituitary, growth of, May, 362
of thyroid, clinical features and treatment of, May, 415–417
medullary, clinical features and treatment of, May, 416
surgical treatment in, May, 428
papillary, clinical features and treatment of, May, 415
Carden tube, in head and neck surgery, August, 606, 683
Cardiovascular system, evaluation of, prior to head and neck surgery, August, 561–564
Carotid artery, internal, aneurysm of, May, 373
Carotid body tumors, branchial anomalies and, February, 185
Cauliflower ear, surgical correction of, November, 933
Caustic ingestion, endoscopic evaluation in, August, 709
Cellular concentrates, in head and neck surgery, August, 741–747
Center for Craniofacial Anomalies, medical education and health care delivery and, November, 777–782
Cerebrospinal fluid fistulas, radiologic assessment of, February, 81
Cervical pain, control of, August, 641–647
Chemicals, congenital disease and, February, 7
Chest tube, posterative use of, in correction of tracheoesophageal fistula, February, 229
Child. See *Pediatric*.
Choanal atresia, congenital, bilateral, airway obstruction and, November, 1013
Choanal atresia (Cont.)
development and treatment of, February, 176–183
endonasal surgical correction of, February, 169
posterior, diagnosis and management of, November, 989–993
radiologic assessment of, February, 69
transpalatal approach in, February, 170
upper airway problems in, November, 765
Choanal stenosis, posterior, diagnosis and management of, November 993–994
Chordoma, clinical features of, May, 370
Choristoma, clinical features of, May, 369–370
Chromosome disorders, pathogenesis of, February, 5
Chromosomes, as carriers of genetic information, November, 843
Cimetidine, drug interactions with, August, 626
Cleft, laryngotracheoesophageal, diagnosis of, February, 216–217
Cleft lip, bilateral, surgical repair of, February, 136
cleft palate, and other fusion disorders, development and surgical correction of, February, 125–143
embryogenesis and etiology of, February, 126–128
epidemiology, genetics, and classification of, February, 128–130
surgical considerations in, February, 130–132
unilateral, surgical correction of, February, 132–136
Cleft lip-nose deformity, diagnosis and management of, November 1000–1001
Cleft lip-palate, etiology of, November, 866–874
hearing, speech, language, and voice disorders in, November, 897
middle ear effusion and auditory tybe dysfunction in, November, 874–880
multifactorial inheritance and, November, 860
secondary deformity in, February, 139–141
surgical correction of, morphologic factors in, November, 784–796
Cleft palate, radiologic assessment of, February, 69
surgical management of, February, 137–139
Cleft palate related otopathologic disease, etiology, diagnosis, and management of, November, 865–884
spectrum of, November, 764–765
Coagulation disorders, evaluation of, prior to head and neck surgery, August, 571
Cocaine, clinical use of, August, 521–531
dosage considerations in, August, 529
kinetic aspects of therapy with, August, 524–526
pharmacology of, August, 522–524
toxicity of, August, 529–530
Communication disorders, evaluation of, precautions in, in craniofacial anomalies, November, 895–896
otolaryngologic care and, in craniofacial

Communication disorders (Cont.)
anomalies, November, 895–915
Compromised airway, anesthesia management with, August, 591. See also *Airway, compromised*, and *Airway obstruction*.
Computed tomography, in craniofacial anomalies, November, 941
in thyroglossal duct and ectopic thyroid disorders, February, 191
Congenital anomalies, arrested development and, February, 44–46
development of, February, 36–38
of head and neck, administration of anesthesia and, August, 534–536
anesthetic technique in, August, 587
Congenital disease, antenatal diagnosis of, February, 47–57
biologic mechanisms of, February, 10–12
classification and definition of, February, 3–13
Congenital ear defects, detection and treatment of, February, 104–109
Cortex, adrenal, steroids produced by, actions of, May, 275–278
Corticotropin releasing factor, actions of, May, 266
Counseling, genetic, need for, February, 38
prenatal detection of birth defects and, November, 861–862
parental, in microtia, November, 892
Counselor, genetic, otolaryngologist as, February, 251–256
Cranial nerve neuralgias, control of, August, 634–637
Craniectomy, in craniofacial synostosis, November, 820
Craniofacial anomalies, approaches to treatment in, November, 910–911
classification, etiology, and genetic aspects of, November, 827–864
classification of, November, 834–843
interdisciplinary team approach in care of, November, 769–775
neural crest cell migration and proliferation and, November, 831–833
otolaryngologist's perception of, November, 763–767
otorhinolaryngologic problems with, February, 145–155
radiology of, November, 939–988
roentgenographic considerations in patients with, November, 939–944
surgery for, February, 157–166; November, 783–825
Craniofacial Anomalies, Center for, medical education and health care delivery and, November, 777–782
Craniofacial dysostosis, airway obstruction and, November, 1011
Craniofacial microsomia, clinical and radiographic features in, November, 980
diagnosis and treatment of, February, 95–124
radiology of, November, 979–985
Craniofacial structures, embryologic development of, November, 827–831
Craniofacial surgery, airway problems and, February, 151
Craniofacial synostosis. See also *Apert's syndrome* and *Crouzon's disease*.
Craniofacial synostosis syndromes, clinical features of, November, 813–814
growth in, November, 814–819
surgery in, November, 819–821
surgical and genetic considerations in, November, 811–821
Craniopharyngiomas, clinical features of, May, 364–367
Craniostenosis, surgery for, February, 157–163
Craniosynostosis, radiology of, February, 77; November, 945–949
Croup, infectious, anesthesia and, August, 550
Crouzon's disease. See also *Craniofacial synostosis*.
airway obstruction and, November, 1011
clinical features of, November, 909
radiology of, November, 949–955
upper airway problems in, November, 766
Cryopreservation, and total parathyroidectomy and heterotopic autoimplantation, May, 442
Cryotherapy, development of, August, 476
Cushing's disease, adrenocorticotrophin secreting adenomas and, May, 357
features of, May, 277
Nelson's syndrome and, May, 357
Cyclopropane, and ether, early experience with, August, 489–490
Cystic hygroma, branchial anomalies and, February, 185
Cysts, and fistulas, preauricular, diagnosis and treatment of, February, 96
and sinuses, thyroglossal duct, treatment of, February, 198
branchial. See *Branchial cleft cysts*.
dermoid, and dermoid sinuses, nasal, diagnosis and management of, November, 996–998
dermoid and epidermoid, of skull, radiologic assessment of, February, 77
laryngeal, and laryngocele, diagnosis of, February, 217
sinuses, and fistulas, branchial cleft, development and treatment of, February, 175–186
thyroglossal duct, clinical presentation of, February, 190

DEBILITATED AND ELDERLY PATIENTS, anesthesia for, August, 715–722
Density test, in surgery for adenoma of parathyroid, May, 439
Dermoid and epidermoid tumors, hypothalamic dysfunction and, May, 372
Dermoid cysts, nasal, and dermoid sinuses, diagnosis and management of, November, 996–998
of skull, radiologic assessment of, February, 77
Diabetes mellitus, clinical features of, May, 281

Diabetes mellitus (Cont.)
evaluation of, prior to head and neck surgery, August, 568–569
management of, in surgical patient, May, 322–328
Digitalis, drug interactions with, August, 626
Down's syndrome, amniocentesis in detection of, February, 50
autosomal abnormalities and, November, 849
features of, February, 37
Drug interactions, and drug reactions, August, 615–629
Drugs, toxic, craniofacial anomalies and, November, 836
Duct, thyroglossal, and ectopic thyroid disorders, February 187–201
Dysgeneration, progressive hearing loss and, February, 61–62
Dyskinesia, and reflux, following correction of pure esophageal atresia, February, 242
Dysostosis, mandibulofacial, radiologic assessment of, February, 70
Dysphagia, following correction of tracheoesophgeal fistula, February, 235
Dysphonia, with craniofacial anomalies, February, 153
Dysplasia, fibrous, radiologic assessment of, February, 75

EAR, external, anatomic and pathologic features of, November, 917–919
reconstructive surgery of, November, 917–938
with autogenous chondroepithelial graft, in biologic dressing, November, 934–938
external and middle, anomalies of, radiologic assessment of, February, 78
inner, anomalies of, radiologic assessment of, February, 81
embryology of, February, 31–33
evolution of, February, 41
middle, embryology of, February, 33–35
nose, and throat surgery, anesthetic machine set-up for, August, 675–676
protruding, correction of, November, 920–934
surgery of, operating room arrangement for, August, 669–670
Ear disease, with craniofacial anomalies, February, 145–147
Ectopic thyroid, and thyroglossal duct disorders, February, 187–201
clinical presentation of, February, 190
treatment of, February, 200
Ectrodactyly–ectodermal dysplasia–cleft lip and palate, clinical features of, November, 907
Edward's syndrome, autosomal abnormalities and, November, 850
Elderly and debilitated patients, anesthesia for, August, 715–722
preoperative evaluation of, August, 717–719
Elective surgery, drug therapy prior to, August, 626–627
Embryology, teratology, and arrested developmental disorders, in otolaryngology, February, 25–38
Empty sella syndrome, clinical features of, May, 376–377
Encephalocele, amniocentesis in detection of, February, 51
nasal, diagnosis and management of, November, 998–999
radiologic assessment of, February, 66
Endocrine disease, detection of, prior to head and neck surgery, August, 568–570
Endocrine system, physiology of, May, 265–284
Endoscopic diagnosis and surgery, anesthesia for, August, 687–698
Endoscopy, evaluation of patient for, August, 688
general anesthesia for, August, 608
in caustic ingestion, August, 709
in congenital laryngeal anomalies, February, 208
in H type of tracheoesophageal fistula, February, 244
in tracheoesophageal fistula, August, 712–713
pediatric, anesthesia and, surgeon's view of, August, 705–713
Endotracheal intubation, in endoscopy, August, 693
Enflurane, and isoflurane, clinical use of, August, 496–498
Enteral nutrition, total parenteral nutrition and, May, 308
Environmental agents, teratogenic disorders and, February, 7
Epidermoid and dermoid tumors, hypothalamic dysfunction and, May, 372
Epinephrine, production and actions of, May, 281
use of, during general anesthesia, August, 621
Erythrocytes, autologous, in head and neck surgery, August, 744
in transfusion therapy, in head and neck surgery, August, 741
Esophageal atresia, and distal tracheoesophageal fistula, preoperative diagnosis and care in, February, 221–224
and tracheoesophageal fistula, diagnosis and treatment of, February, 219–249
pure, diagnosis and correction of, February, 237–243
Esophageal sphincter, inferior, following correction of tracheoesophageal fistula, February, 232
Esophagoscopy, general anesthesia for, August, 609
Estrogen, as product of ovary, May, 280
Ether, and cyclopropane, early experience with, August, 489–490
Exophthalmos, malignant, clinical features and diagnosis, in, May, 448–449. See also

Exophthalmos (Cont.)
*Malignant exophthalmos.*
Expiratory flow rates, forced, determination of, in patients undergoing head and neck surgery, August, 725–727
External auditory canal, construction of, February, 109–117
duplication of, diagnosis and treatment of, February, 97–99
Eye. See *Orbit.*

FACIAL. See also *Craniofacial.*
Facial anomalies, radiographic assessment of, February, 65–81
Facial neuralgia, atypical, control of, August, 637–639
Facial pain, diffuse, control of, August, 641
Facial trauma, anesthesia induction in, August, 599–600
Factor VIII and factor II–IX concentrates, in head and neck surgery, August, 750
Fat metabolism, total parenteral nutrition and, May, 307
Feeding, postoperative, following correction of tracheoesophageal fistula, February, 230
Fenestration operation, in congenital middle ear malformation, February, 118
Fetoscopy, in detection of congenital disease, February, 55
Fetus, radiation of, congenital disorders and, February, 10
trauma to, congenital disorders and, February, 10
Fiberoptic bronchoscope, use of, August, 602
with suction attachment, August, 683
Fiberoptic endoscopic instruments, in upper airway problems, November, 766
Fiberoptic laryngoscope, use of, August, 601
Fibrous dysplasia, radiologic assessment of, February, 75
Fistulas, and cysts, preauricular, diagnosis and treatment of, February, 96
cerebrospinal fluid, radiologic assessment of, February, 81
cysts, and sinuses, branchial cleft, development and treatment of, February, 175–186
tracheoesophageal. See *Tracheoesophageal fistula.*
Flow-volume loops, in patients undergoing head and neck surgery, August, 728–729
Fluid balance, anesthesia and, in children, August, 541–544
Follicle stimulating hormone, actions of, May, 268, 280
Follicular carcinoma, of thyroid, clinical features and treatment of, May, 415
Forced expiratory flow rates, in patients undergoing head and neck surgery, August, 725–727
Forceps, anesthetic intubating, August, 679–680
Foreign body, anesthetic technique with, August, 589
Foreign body (Cont.)
aspiration of, laryngoscopy and bronchoscopy in, August, 707–709
impaction of, following correction of tracheoesophageal fistula, February, 237

G TRISOMY, features of, February, 37
Gallamine triethiodide, actions and use of, August, 510
Gastrostomy, in correction of pure esophageal atresia, February, 238
General anesthetics, features and use of, August, 489–500
Genes, nontransmission of, February, 21
Genetic counseling, need for, February, 38
prenatal detection of birth defects and, November, 861–862
Genetic counselor, otolaryngologist as, February, 251–256
Genetic disorders, multifactorial, transmission of, February, 7
pathogenesis of, February, 4–10
Genetic factors, craniofacial anomalies and, November, 843
Genetics, Mendelian, in otolaryngology, February, 15–24
Genotype, factors affecting transmission of, February, 20
Geriatric patient, evaluation of, prior to head and neck surgery, August, 574
Germinoma, of suprasellar region, clinical features of, May, 372
Glandular abnormalities, branchial anomalies and, February, 185
Gliomas, nasal, diagnosis and management of, November, 999–1000
of optic nerve, clinical features of, May, 367–368
Glucose intolerance, detection of, May, 282
Glucose metabolism, total parenteral nutrition and, May, 307
Goiter, diffuse toxic, clinical features of, May, 410
multinodular, treatment in, May, 426–427
nontoxic, treatment of, May, 411
substernal, surgical technique in, May, 433–434
Granular cell myoblastoma, clinical features of, May, 369–370
Granulocyte concentrates, in head and neck surgery, August, 746
Granuloma, midline, clinical features and therapy in, May, 340–343
Granulomatosis, Wegener's, clinical features and therapy in, May 336–339
Graves' disease, therapy in, May, 424–426
Gray reduction, of deviated septum and nose, November, 995
Greater palatine nerve block, at palatine foramen, August, 663
Growth hormone, actions of, May, 270
Growth hormone releasing factor, and growth hormone release inhibiting hormone, actions of, May, 267
Growth hormone secreting adenomas, occurrence of, May, 356

HALOTHANE, and methoxyflurane, clinical use of, August, 493–496
Hamartoma, of hypothalamus, anatomic features of, May, 370–372
Head, and neck, embryology, of, February, 25–31
Head and neck surgery, metabolic care in, May, 285–299
Headache, pituitary adenomas and, May, 358
  tension, control of, August, 633–634
  vascular, control of, August, 631–633
Hearing, language, and speech, hazards to, in craniofacial anomalies, November, 897–910
Hearing improvement, following correction of congenital aural malformation, February, 121–122
  surgery for, in microtia, November, 892
Hearing loss, and vertigo, metabolic causes of, May, 347–354
  clinical onset of, determination of, February, 62
  congenital and acquired, with craniofacial anomalies, February, 146
  degenerative, abiotrophy and, February, 60
  early, subsequent development and, in craniofacial anomalies, November, 896–897
  hereditary, with delayed onset, mechanisms of expression of, February, 58–64
  progressive, inborn errors of metabolism and, February, 60–61
Heart defect, congenital, with esophageal atresia and tracheoesophageal fistula, February, 223
Hemangioma(s), branchial anomalies and, February, 185
  radiologic assessment of, February, 75
  subglottic, diagnosis of, February, 214–216
Hematologic studies, prior to head and neck surgery, August, 570–573
Hemifacial microsomia, clinical features of, November, 886, 903
  growth in, November, 798–802
  radiologic assessment of, February, 69
  surgery in, February, 163–164; November, 802–805
    morphologic factors in, November, 796
Hemoglobin level, determination of, prior to head and neck surgery, August, 570
Hemorrhage, following thyroid surgery, May, 434
Hemorrhagic disorders, evaluation of, prior to head and neck surgery, August, 571
Hepatic disease, evaluation of, prior to head and neck surgery, August, 564–565
Hereditary anomalies, transmission of, February, 37
Hormones, anterior pituitary, actions of, May, 268–275
Hunter's syndrome, hearing loss in, February, 61
Hurler's syndrome, hearing loss in, February, 60
Hurthle cell carcinoma, clinical features and treatment of, May, 417
Hygroma, cystic, branchial anomalies and, February, 185
Hygroma (Cont.)
Hyperalimentation, parenteral, in head and neck surgery, May, 309–313
  complications of, May, 313–314
Hyperlipoproteinemia, evaluation of, May, 349–352
Hypernasality, with craniofacial anomalies, February, 153
Hypernatremia, following head and neck surgery, May, 292
Hyperosmolar syndromes, following head and neck surgery, May 298
Hyperparathyroidism, clinical features and treatment of, May, 417–419
  surgical management of, May, 438–443
Hypertelorism, orbital, surgical correction of, February, 163
  radiologic assessment of, February, 66
Hypertension, evaluation of, prior to head and neck surgery, August, 563
  evaluation and management of, May, 318
  medication considerations in, May, 319
  otolaryngologic disease, management of, May, 317–322
Hyperthermia, malignant, with anesthesia, August, 498–500
Hyperthyroidism, treatment of, May, 410
Hypokalemia, following head and neck surgery, May, 289
Hyponasality, with craniofacial anomalies, February, 153
Hyponatremia, following head and neck surgery, May, 292
Hypoparathyroidism, following thyroid surgery, May, 437
Hypotensive anesthesia, controlled, applications of, August, 609
Hypothalamic releasing hormone, actions, physiology, and clinical evaluation of activity of, May, 265–268
Hypothalamus, and neuroendocrine correlations, May, 265
  hamartoma of, May, 370–372
Hypothermia, early use of, August, 476
Hypothyroidism, and hyperthyroidism, following thyroid surgery, May 437
  clinical features and treatment of, May, 414

INDUCTION, anesthetic, high risk, August, 587–600
Infection, anesthetic technique in patient with, August, 587
  craniofacial anomalies and, November, 840
  of upper respiratory tract, with craniofacial anomalies, February, 154
Inferior alveolar nerve block, technique of, August, 656
Infiltration anesthesia, in otologic surgery, August, 702
Infraorbital nerve block, at infraorbital foramen, August, 661
  extraoral technique of, August, 667
Infundibuloma, occurrence of, May, 370
Inheritance, dominant and recessive, craniofacial anomalies and, November, 853

Inheritance (Cont.)
Mendelian, otolaryngologic disorders and, February, 15–24
multifactorial, craniofacial anomalies and, November, 859–861
transmission of, February, 7
X linked, craniofacial anomalies and, November, 856
Injuries. See *Trauma*.
Insulin, production and actions of, May, 281
Insulin therapy, preoperative preparation and, August, 583
Interdisciplinary team approach, in care of craniofacial anomalies, November, 769–775
Internal carotid artery, aneurysm of, May, 373
Interorbital distance, bony, radiographic evaluation of, in craniofacial anomalies, November, 942
Intubating stylette, adjustable tip, August, 680–681
Intubation, blind, with illuminated stylette, August, 604
with retrograde catheter, August, 605
with tube, August, 603
difficult, techniques for, August, 600–613
endotracheal, in endoscopy, August, 693
Iontophoresis, in otologic surgery, August, 703
Isoflurane, and enflurane, clinical use of, August, 496–498

JET VENTILATION, high pressure, application of, August, 606

KETAMINE, in otologic surgery, August, 701
Kidney, diseases of, detection of, prior to head and neck surgery, August, 566–568
Klinefelter's syndrome, sex chromosomal abnormalities and, November, 847
Klippel-Feil syndrome, airway obstruction and, November, 1015

LANGUAGE, speech, and hearing, hazards to, in craniofacial anomalies, November, 897–910
Laryngeal anomalies, congenital, diagnosis and treatment of, February, 203–218
Laryngeal cysts, and laryngocele, diagnosis of, February, 217
Laryngeal webs, and atresia, diagnosis of, February, 214
Laryngocele, and laryngeal cysts, diagnosis of, February, 217
Laryngomalacia, diagnosis of, February, 209–211
Laryngoscope, fiberoptic, use of, August, 601
straight blade, use of, August, 601
Toronto ventilating, use of, August, 606
Laryngoscope blades, for anesthesia, August, 676–677
Laryngoscopy, and bonchoscopy, in children, anesthesia and, August, 553
in foreign body aspiration, August, 707–709
in papillomas of larynx, August, 710–711
Laryngotracheal complex, injuries of, treatment of, August, 477
Laryngotracheoesophageal cleft, diagnosis of, February, 216–217
Larynx, anomalies of, airway obstruction and, November, 1008
laser surgery of, anesthesia in, August, 613
papillomas of, laryngoscopy and bronchoscopy in, August, 710–711
Laser microsurgery, current use of, August, 477
of larynx, anesthesia in, August, 613
Le Fort osteotomy, for craniostenosis, February, 158–163
Le Fort III advancement, in craniofacial synostosis, facial growth and, November, 821
Le Mesurier technique, in unilateral cleft lip, February, 134
Leukocyte-poor red blood cells, in head and neck surgery, August, 742
Lidocaine hydrochloride, in head and neck surgery, August, 486
Lingual nerve block, technique of, August, 658
Lip, cleft. See *Cleft lip*.
Lipoma, branchial anomalies and, February, 184
Lithium, drug interactions with, August, 624
Liver disease, evaluation of, prior to head and neck surgery, August, 564–565
Local anesthesia, in endoscopy, August, 690
in otologic surgery, August, 702–704
Local anesthetics, action, metabolism, and toxicity of, August, 515–519
in head and neck surgery, August, 485–487
Lop ear deformity, surgical correction of, February, 83–93; November, 929
complications of, February, 91
postoperative care in, February, 90
Luteinizing hormone, actions of, May, 268
Luteinizing hormone–releasing hormone, actions of, May, 267
Lymphangioma, branchial anomalies and, February, 185
Lymphomas, branchial anomalies and, February, 185

MACROTIA, surgical correction of November, 930
Magnesium, calcium, and phosphate metabolism, head and neck surgery and, May, 296–298
Malignant exophthalmos, clinical features and diagnosis in, May, 448–449
nonsurgical therapy in, May, 449–450
ophthalmic surgery in, May, 447–459
surgical therapy in, May, 450–457
Malignant hyperpyrexia, in patient undergoing head and neck surgery, August, 573
Malignant hyperthermia, with anesthesia, August, 498–500
Malnourishment, identification of, in head and neck surgery, May, 301
Malnutrition, detection of, prior to head and neck surgery, August, 565–566

Mandible, and maxilla, anomalies of, radiologic assessment of, February, 69–72
Mandibular nerve block, technique of, August, 660
Mandibulofacial dysostosis, airway obstruction and, November, 1011
clinical and radiographic features of, November 966
clinical features of, November, 885, 904
clinical features and growth in, November, 806–811
otologic malformation in, November, 972
radiologic assessment of, February, 70; November, 965–979
surgery in, November, 811
morphologic factors in, November, 796
upper airway problems in, November, 766
Mastoidectomy, simple, in middle ear disease, in cleft lip-palate, November, 881
Maxilla, and mandible, anomalies of, radiologic assessment of, February, 69–72
Maxillary nerve block, extraoral technique of, August, 666
Maximal voluntary ventilation, determination of, in patients undergoing head and neck surgery, August, 727
Mediastinotomy, trans-sternal, technique in, May, 434
Medication, preoperative, head and neck surgery and, August, 579–585
Medullary carcinoma, of thyroid, clinical features and treatment of, May, 416
surgical treatment in, May, 428
Melanocyte stimulating hormone inhibitory factor and releasing factor, actions of, May, 268
Mendelian genetics and cytogenetics, in otolaryngology, February, 15–24
Mendelian inheritance, simulation of, February, 23
Meningioma, of sellar and parasellar region, clinical features of, May, 363–364
Mental nerve block, technique of, August, 659
via extraoral injection, August, 660
Mental retardation, pathogenesis of, February, 11
Mentally retarded patient, anesthesia induction in, August, 598–599
Metabolic acidosis, following head and neck surgery, May, 294
Metabolic alkalosis, following head and neck surgery, May, 295
Metabolic factors, craniofacial anomalies and, November, 840
Metabolism, inborn errors of, progressive hearing loss and, February, 60–61
Metastatic malignant neoplasms, branchial anomalies and, February, 184
Metastatic tumors, of sellar and parasellar region, May, 369
Methoxyflurane, and halothane, clinical use of, August, 493–496
Metocurine, actions and use of, August, 510
Metzenbaum reduction, of deviated septum and nose, November, 995
Microsomia, craniofacial, clinical and radiographic features in, November, 980
diagnosis and treatment of, February, 95–124
radiology of, November, 979–985
hemifacial, clinical features of, November, 886, 903. See also *Hemifacial microsomia.*
Microsurgery, laser, current use, of, August, 477
of larynx, anesthesia in, August, 613
Microtia, craniofacial, classification and multidisciplinary management of, November, 885–893
detection and treatment of, February, 104–109
multidisciplinary management of, November, 887–892
syndrome related, and temporal bone anomalies, November, 765
Middle ear, congenital deformities of, detection of, February, 100
sound conducting apparatus of, restoration of, February, 117–120
surgery of, timing of, February, 122–123
Middle ear disease, in cleft lip-palate, management of, November, 880–882
Middle ear effusion, and auditory tube dysfunction, in cleft lip-palate, November, 874–880
diagnosis of, November, 876–880
Midline granuloma, clinical features and therapy in, May, 340–343
Millard technique, in unilateral cleft lip, February, 135
Mondini-Alexander syndrome, as instance of arrested development, February, 45
Mouth, and teeth, anesthesia of, August, 653–668
neuroanatomy of, August, 653–656
Mouth gags, in head and neck surgery, August, 684–685
Mucocele, of sphenoidal sinus, May, 374
Multinodular goiter, treatment in, May, 426–427
Muscle relaxants, "central" effects of, August, 624
drug interactions with, August, 622–624
Mustarde otoplasty, in correction of protruding ear, November, 925
Mutation(s), random, tranmission of genotype and, February, 20
single gene, craniofacial anomalies and, November, 852–859
Myasthenia gravis, detection of, prior to head and neck surgery, August, 574
Myoblastoma, granular cell, clinical features of, May, 369–370
Myringotomy, and tympanostomy tube insertion, in middle ear disease, in cleft lip-palate, November, 881

NARCOTIC ANALGESICS, preoperative use of, August, 581
Nasal. See also *Nose.*
Nasal deformity, with cleft lip and palate, February, 139–141

Nasal obstruction, chronic, with craniofacial anomalies, February, 151
neonatal, with craniofacial anomalies, February, 147
Nasopalatine nerve block, at incisive foramen, August, 663
Nasopharynx, and nose, anomalies of, airway obstruction and, November, 1007
Neck and head, embryology of, February, 25–31
Nelson's syndrome, Cushing's syndrome and, May, 357
Neoplastic disease. See also *Cancer, Carcinoma,* and *Tumors.*
craniofacial anomalies and, November, 834
Neoplasms, metastatic malignant, branchial anomalies and, February, 184
Nerve block, greater palatine, at palatine foramen, August, 663
infraorbital, at infraorbital foramen, August, 661
extraoral technique of, August, 667
lingual, technique of, August, 658
mandibular, technique of, August, 660
maxillary, extraoral technique of, August, 666
mental, technique of, August, 659
via extraoral injection, August, 660
nasopalatine, at incisive foramen, August, 663
Nerve injury, following thyroid surgery, May, 435
Neural tube defects, amniocentesis in detection of, February, 51
Neuralgia, atypical facial, control of, August, 637–639
cranial nerve, control of, August, 634–637
postherpetic, control of, August, 639–641
Neuroendocrine correlations, and hypothalamus, May, 265
Neurofibromatosis, radiologic assessment of, February, 72
Neuroleptic analgesics, preoperative use of, August, 582
Neuromuscular blocking drugs, development and mechanisms of action of, August, 501–504
monitoring of action of, August, 505–506
pharmacologic antagonism of, August, 506
philosophy of use of, August, 504–505
use of, August, 501–513
Nitrous oxide, clinical use of, August, 490–491
inhalation anesthesia with, in otologic surgery, August, 699
Nodule, solitary, of thyroid, treatment of, May, 411
Norepinephrine, metabolism, storage, and release of, August, 617
production and actions of, May, 281
Nose. See also *Nasal.*
absence of, management of, November, 1001–1003
and deviated septum, in newborn, diagnosis and management of, November, 994–996
and nasopharynx, anomalies of, airway obstruction and, November, 1007
Nose (Cont.)
and orbit, anomalies of, radiologic assessment of, February, 66–69
anomalies of, classification and management of, November, 989–1004
dermoid cysts and sinuses of, diagnosis and management of, November, 996–998
evolution of, February, 41
gliomas of, diagnosis and management of, November, 999–1000
"runny," in pediatric patient, administration of anesthesia and, August, 536–538
Nutrition, following head and neck surgery, May, 286
total parenteral, energy requirement for, May, 304–306
nutritional requirements for, May, 306–309
Nutritional assessment, in head and neck surgery, May, 301–304
Nutritional support, in head and neck surgery, May, 301–316

OBESITY, testosterone and, May, 279
Obstruction, airway. See *Airway.*
neonatal nasal, with craniofacial anomalies, February, 147
neonatal oropharyngeal, with craniofacial anomalies, February, 147
respiratory, following thyroid surgery, May, 435
Olfaction, disorders of, with craniofacial anomalies, February, 154
Oliguria, following head and neck surgery, May, 286
Oncocytoma, diagnosis of, May, 357
Operating room, protocol in, August, 484
special equipment in, for head and neck surgery, August, 669–686
Orbit, and nose, anomalies of, radiologic assessment of, February, 66–69
Orbital hypertelorism, surgical correction of, February, 163
Organs, sensory, evolution of, February, 40–44
Orofaciodigital syndrome, type I, clinical features of, November, 905
Oropharyngeal obstruction, neonatal, with craniofacial anomalies, February, 147
Orthodontist, role of, in correction of craniofacial anomalies, November, 783
Ossicles, auditory, anomalies of, diagnosis and treatment of, February, 99–102
Osteitis deformans, evaluation and management in, May, 352–353
Osteotomy(ies), complications of, February, 165
Le Fort, for craniostenosis, February, 158–163
team planning and, February, 164–165
Otolaryngology, anesthesia in, current practice in, August, 483–487
historical overview of, August, 467–481
Otologic surgery, anesthesia in, August, 699–704
Otomandibular malformation, surgical correction of, morphologic factors in, November, 796–805

Otoplasty, Becker, in correction of protruding ear, November, 923
in congital lop ear deformity, February, 84–90
Mustarde, in correction of protruding ear, November, 925
Otosclerosis, dysgeneration and, February, 61
Ovary, hormone production by, May, 280

PACKED RED CELLS, in head and neck surgery, August, 741
Paget's disease, evaluation and management in, May, 352–353
Pain, cervical, control of, August, 641–647
diffuse facial, control of, August, 641
in cancer, pharmacologic management of, August, 648–649
in head and neck, control of, August, 631–652
Palate, cleft, radiologic assessment of, February, 69
Palatine nerve block, greater, at palatine foramen, August, 663
Palatopharyngeal incompetency, congenital, in craniofacial anomalies, November, 899
Palatorrhaphy, von Langenbeck, in cleft palate, February, 137
V–Y pushback, in cleft palate, February, 137
Pancreas, endocrine system of, May, 280–282
Pancuronium, actions and use of, August, 510
Papillary carcinoma, of thyroid, clinical features and treatment of, May, 415
Papillomas, of larynx, laryngoscopy and bronchoscopy in, August, 710–711
Paralysis, vocal cord, diagnosis of, February, 211–212
Parasellar and sellar diseases, clinical and radiographic features of, May, 355–378
Parasellar region, surgical anatomy of, May, 379–385
Parathyroid, adenoma of, density test in surgery for, May, 439
diseases of, May, 417–420
physiology of, May, 417
Parathyroidectomy, total, and heterotopic autoimplantation and cryopreservation, May, 442
Parenteral hyperalimentation, in head and neck surgery, May, 309–313
complications of, May, 313–314
Parenteral nutrition, total, energy requirement for, May, 304–306
nutritional requirements for, May, 306–309
Patau's syndrome, autosomal abnormalities and, November, 850
Pediatric anesthesia, compromised airway and, August, 534–536. See also *Anesthesia, pediatric.*
Pediatric endoscopy, anesthesia and, surgeon's view of, August, 705–713
Pediatric patient, anesthesia in, principles of, August, 538–541
Petrous anomalies, radiologic assessment of, February, 78–81
Phenotype, factors affecting expression of, February, 21–23
Phenylketonuria, maternal, craniofacial anomalies and, November, 840
Phosphate, calcium, and magnesium metabolism, head and neck surgery and, May, 296–298
Phylogeny, clinical significance of, February, 39–46
Pierre Robin syndrome, airway obstruction and, November, 1015
clinical features of, November, 900
radiologic assessment of, February, 72
upper airway problems in, November, 765
Pituicytoma, clinical features of, May, 369–370
Pituitary, ablation of, in carcinoma, of breast, surgical technique in, May, 397–402
adenoma of , headache and, May, 358
visual symptoms and signs of, May, 357
anterior, hormones of, actions of, May, 268–275
carcinoma of, growth of, May, 362
surgical anatomy of, May, 394–397
tumors of, clinical and radiographic features of, May, 355–363
endocrine factors in development of, May 356
Pituitary apoplexy, pituitary adenomas and, May, 358
Plagiocephaly, radiologic detection of, November, 947
Plasma, single donor, and single donor fresh frozen plasma, in head and neck surgery, August, 747
Plasma components and derivatives, in head and neck surgery, August, 747–751
Platelet concentrates, in head and neck surgery, August, 744
Polytomography, of temporal bone, in microtia, November, 890
Polyuria, following head and neck surgery, May, 287
Positioning, of patient, for head and neck surgery, August, 484
Postherpetic neuralgia, control of, August, 639–641
Potassium and sodium derangements, following head and neck surgery, May, 289–294
Pregnancy, head and neck surgery and, August, 574
Preoperative evaluation, in head and neck surgery, August, 557–577
Preoperative medication, head and neck surgery and, August, 579–585
Prolactin, actions of, May, 273
Prolactin release inhibiting factor, actions of, May, 267
Prolactinomas, clinical features of, May, 356
Prontosil, early use of, August, 476
Protein metabolism, total parenteral nutrition and, May, 306
Pseudocholinesterase deficiency, detection of, prior to head and neck surgery, August, 573
Pulmonary assessment, in head and neck surgery, May, 285
Pulmonary function testing, prior to head and neck surgery, August, 723–733

Pulmonary system, evaluation of, prior to head and neck surgery, August, 558–560
Pure tone testing, in cleft lip-palate, November, 877

RADIATION, of fetus, congenital disorders and, February, 10
Radiographic evaluation, in congenital craniofacial disorders, February, 65–81
in congenital laryngeal anomalies, February, 206
in craniofacial anomalies, November, 939–988
in microtia, November, 890
of auditory tube function, in cleft lip-palate, November, 880
Radionuclide scanning, of thyroid tissue, February, 191
Red blood cells, autologous, in head and neck surgery, August, 744
in transfusion therapy, in head and neck surgery, August, 741
Reidel's struma, clinical features and treatment of, May, 414
Relaxants, muscle, "central" effects of, August, 624
drug interaction with, August, 622–624
Renal disease, detection of, prior to head and neck surgery, August, 566–568
Respiratory acidosis, following head and neck surgery, May, 295
Respiratory alkalosis, following head and neck surgery, May, 296
Respiratory muscle strength, determination of, in patients undergoing head and neck surgery, August, 727–728
Respiratory obstruction, following thyroid surgery, May, 435. See also *Airway*.
Respiratory system, evaluation of, prior to head and neck surgery, August, 558–560
evolution of, February, 41
Respiratory tract infections, upper, with craniofacial anomalies, February, 154
Retardation, mental, pathogenesis of, February, 11
Roentgenocephalometry, in craniofacial anomalies, November, 784, 940
"Runny" nose, in pediatric patient, administration of anesthesia and, August, 536–538

SAETHRE-CHOTZEN SYNDROME, radiology of, November, 962–965
Sander's Venturi-ventilating attachment, for rigid bronchoscopy, August, 681–683
Sarcoidosis, clinical features and therapy in, May, 331–336
Scanning, radionuclide and computed tomographic, in thyroglossal duct and ectopic thyroid disorders, February, 191
Scarring, anesthetic technique in patient with, August, 588
Sclerosis, parasutural, radiologic detection of, November, 947
Sella turcica, abscess formation in, May, 373
sublabial trans-septal approach to, May, 385–390
Sellar and parasellar diseases, clinical and radiographic features of, May, 355–378
Sensory organs, evolution of, February, 40–44
Septum, and nose, deviated, in newborn, diagnosis and management of, November, 994–996
Sickle cell trait, detection of, prior to head and neck surgery, August, 572
Sinus(es), and thyroglossal duct cysts, treatment of, February, 198
cysts, and fistulas, branchial cleft, development and treatment of, February, 175–186
dermoid, and dermoid cysts, nasal, diagnosis and management of, November, 996–998
sphenoidal, mucocele of, May, 374
Sipple's syndrome, treatment of, May, 420
Skull, dermoid and epidermoid cysts of, radiologic assessment of, February, 77
Smell, sense of, disorders of, with craniofacial anomalies, February, 154
Sodium and potassium derangements, following head and neck surgery, May, 289–294
Sonometry, in cleft lip-palate, November, 879
Sound conducting apparatus, restoration of, February, 117–120
Spastic torticollis, control of, August, 649
Speech, language, and hearing, hazards to, in craniofacial anomalies, November, 897–910
Speech disorders, with craniofacial anomalies, February, 153–154
Sphenoidal sinus, mucoceles of, May, 374
Sphincter, inferior esophageal, following correction of tracheoesophageal fistula, February, 232
Spina bifida, amniocentesis in detection of, February, 51
Sprays, laryngotracheal, use of, August, 677–679
Stenosis, congenital subglottic, diagnosis of, February, 212–214
posterior choanal, diagnosis and management of, November, 993–994
Steroid levels, evaluation of, prior to head and neck surgery, August, 569
Steroids, drug interactions with, August, 625
preoperative use of, August, 583
Strength, respiratory muscle, determination of, in patients undergoing head and neck surgery, August, 727–728
Streptomycin, hearing loss and, February, 62
Stricture, and leakage, following correction of pure esophageal atresia, February, 242
following correction of tracheoesophageal fistula, February, 232
Stridor, in infant or child undergoing endoscopy, August, 706–707
Struma, Reidel's, clinical features and treatment of, May, 414
Stylette, intubating, adjustable tip, August, 680–681

Subglottic hemangioma, diagnosis of, February, 214–216
Subglottic stenosis, congenital, diagnosis of, February, 212–214
Succinylcholine, actions and use of, August, 506–509
Surgery, elective, of head and neck, drug therapy prior to, August, 626–627
for craniofacial anomalies, February, 157–166
airway problems and, February, 151
head and neck, metabolic care in, May, 285–299

TEETH, and mouth, anesthesia of, August, 653–668
Temporal bone, anomalies, of, syndrome related microtia and, November, 765
polytomography of, in microtia, November, 590
Tennison-Randall technique, in unilateral cleft lip, February, 134
Tension headache, control of, August, 633–634
Teratogenic disorders, pathogenesis of, February, 7–10
Teratogenic drugs, craniofacial anomalies and, November, 836
Teratology, arrested development and, February, 36–38
embryology, and arrested developmental disorders, in otolaryngology, February, 25–38
Testis, hormonal production by and anatomic features of, May, 278–279
Testosterone, actions of, May, 278
Thrombocytopenia, detection of, prior to head and neck surgery, August, 571
Thrombophlebitis, evaluation of, prior to head and neck surgery, August, 564
Thyroglossal duct and ectopic thyroid disorders, February, 187–201
diagnostic aids in, February, 191–197
embryology and histology of, February, 187–189
Thyroglossal duct cysts, and sinuses, treatment of, February, 198
clinical presentation of, February, 190
Thyroid, adenocarcinoma of, clinical features and treatment of, May, 416
anaplastic carcinoma of, clinical features and treatment of, May, 416
anatomy of, May, 406–407
biopsy of, May, 409–410
carcinoma of, clinical features and treatment of, May, 415–417
follicular, clinical features and treatment of, May, 415
medullary, clinical features and treatment of, May, 416
surgical treatment in, May, 428
papillary, clinical features and treatment of, May, 415
congenital anomalies of, May, 407
developmental anomalies of, May, 423–424
diseases of, May, 405–417, 423–438
evaluation of, prior to head and neck surgery, August, 570
ectopic, and thyroglossal duct disorders, February, 187–201
clinical presentation of, February, 190
treatment of, February, 200
functional tests of, May, 408–409
malignant lesions of, May, 427–429
physiology of, May, 405–406
surgery of, postoperative complications in, May, 434–438
surgical anatomy of, May, 429–430
Thyroid storm, following thyroid surgery, May, 436
Thyroidectomy, operative technique in, May, 430–433
with neck dissection, May, 433
Thyroiditis, clinical features and treatment of, May, 413, 427
Thyrotropin, actions of, May, 268
Thyrotropin releasing hormone, actions of, May, 265
Tomography, computed, in craniofacial anomalies, November, 941
in thyroglossal duct and ectopic thyroid disorders, February, 191
in craniofacial anomalies, November, 940
Tonsillectomy and adenoidectomy, in children, anesthesia and, August, 551
Tonsils, bleeding, anesthesia induction and, August, 596
Toronto ventilating laryngoscope, use of, August, 606
Torticollis, spastic, control of, August, 649
Total parenteral nutrition, energy requirement for, May, 304–306
nutritional requirements for, May, 306–309
Trachea, anomalies of, airway obstruction and, November, 1010
Tracheal reconstruction, high pressure jet ventilation and, August, 607
Tracheoesophageal fistula, and esophageal atresia, diagnosis and treatment of, February, 219–249
endoscopy in, August, 712–713
H type, surgical correction of, February, 243–247
surgical correction of, February, 224–228
postoperative care in, February, 228–237
Tracheomalacia, following correction of tracheoesophageal fistula, February, 235
Tracheotomy, in injuries of laryngotracheal complex, August, 477
Tranquilizers, preoperative use of, August, 581
Transfusion therapy, in head and neck surgery, August, 573, 739–753
Translocation disorders, transmission of genotype and, February, 20
Trauma, craniofacial anomalies and, November, 834
facial, anesthesia induction in, August, 588, 599–600
to fetus, congenital disorders and, February, 10
to laryngotracheal complex, treatment of, August, 477

Treacher Collins syndrome. See *Mandibulofacial dysostosis.*
Trisomy 13, autosomal abnormalities and, November, 850
Trisomy 16, features of, February, 37
Trisomy 17, features of, February, 37
Trisomy 18, autosomal abnormalities and, November, 850
  features of, February, 37
Trisomy 21, autosomal abnormalities and, November, 849
  features of, February, 37
Trisomy 22, features of, February, 37
Tube, Carden, in head and neck surgery, August, 606, 683
Tuberculous adenitis, branchial anomalies and, February, 184
*d*-Tubocurarine, actions and use of, August, 509–510
Tumors. See also *Cancer, Carcinoma,* and *Neoplastic disease.*
  carotid body, branchial anomalies and, February, 185
  epidermoid and dermoid, hypothalamic dysfunction and, May, 372
  metastatic, of sellar and parasellar region, May, 369
  of oral cavity, pharynx, and larynx, anesthetic technique in, August, 588
  of pituitary, clinical and radiographic features of, May, 355–363. See also *Pituitary.*
Turner's syndrome, sex chromosomal abnormalities and, November, 843
Tympanic bone, hypoplasia of, detection and treatment of, February, 102–104
Tympanic membrane, construction of, February, 109–117
Tympanometry, in cleft lip-palate, November, 877
Tympanoplasty, in congenital middle ear malformation, February, 118
  in middle ear disease, in cleft lip-palate, November, 882

Ultrasound, in detection of congenital disease, February, 53–54
  in thyroglossal duct and ectopic thyroid disorders, February, 191

Vascular headache, control of, August, 631–633
Vasodilators, coronary, preoperative use of, August, 583
Vasopressin, actions of, May, 273
Ventilation, jet, high pressure, application of, August, 606
  maximal voluntary, determination of, in patients undergoing head and neck surgery, August, 727
Venturi-ventilating attachment, Sander's, for rigid bronchoscopy, August, 681–683
Vertigo, and hearing loss, metabolic causes of, May, 347–354
Vital capacity, determination of, in patients undergoing head and neck surgery, August, 724–725
Vocal cord paralysis, diagnosis of, February, 211–212
von Langenbeck palatorrhaphy, in cleft palate, February, 137
von Recklinghausen's disease, hearing loss and, February, 62

Wardill-Kilner-Peet palatorrhaphy, in cleft palate, February, 137
Warfarin, use of, in patient undergoing head and neck surgery, August, 572
Webs and atresia, laryngeal, diagnosis of, February, 214
Wegener's granulomatosis, clinical features and therapy in, May, 336–339